	UNVERSITY OF TECHNOLOGY
	000
	Utech
Name :	
Roll No. :	The Desire of Consider and Conference
Invigilator's Signature :	

## CS/B.TECH (IT)/SEM-8/IT-802B/2013 2013

## **BUSINESS INFORMATION SYSTEMS**

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

## **GROUP** – **A**

## ( Multiple Choice Type Questions )

1. Choose the correct alternatives for the following :

 $10 \times 1 = 10$ 

- i) MVS stands for
  - a) Multiple Variable Storage
  - b) Multi-Virtual System
  - c) Multiple Virtual System
  - d) Multiple Virtual Storage.

8209

[ Turn over



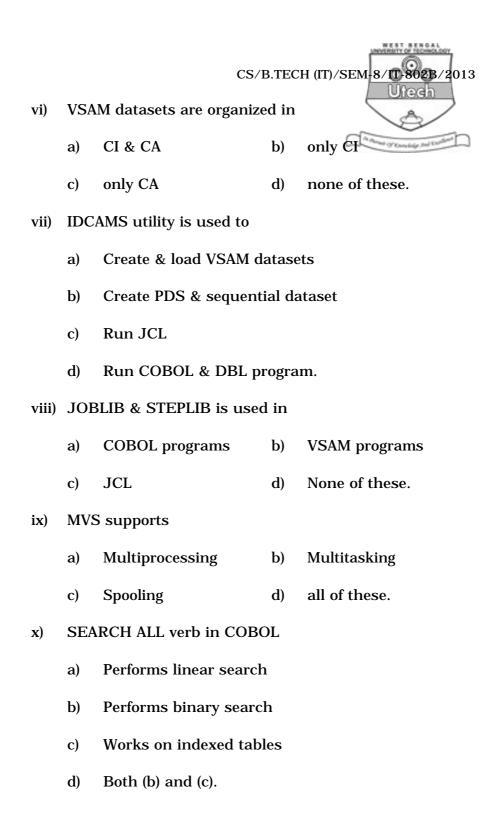
- ii) A mainframe DASD is a / an
  - a) Input device



- c) Storage device d) none of these.
- iii) COND = ONLY in JCL means that
  - a) step will be executed if previous step is successful

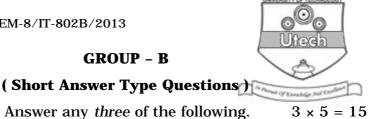
b)

- b) step will not be executed at all
- c) step will be executed only if previous step abends
- d) none of these.
- iv) The different VSAM datasets are
  - a) LDS, ESDS
  - b) ESDS, KSDS, RRDS
  - c) LDS, ESDS, RRDS, KSDS
  - d) PDS, ESDS, LDS, KSDS.
- v) The divisions in COBOL are
  - a) Identification
  - b) Data
  - c) Procedure & Environment
  - d) All of these
  - e) none of these



[ Turn over





- 2. Write down the steps for executing a COBOL-DBL program.5
- 3. What are control interval and control area ? What are CIDF and RDF? 3 + 2
- 4. Write down the procedure division statement for merging two files. Is there any precondition? 3 + 2
- Discuss the different uses of PERFORM verb. 5.
- Write an FD entry for a file with following specifications : 6.
  - File is to be refered in program as MYFILE. i)
  - File contains 120 characters in each record. ii)
  - iii) The blocking factor is 15
  - iv) The record is of fixed length.
- 7. What is the difference between a subscript and index ?

CS/B.TECH (IT)/SEM-8/IT-802B 2013 Uiech **GROUP** – **C** (Long Answer Type Questions)  $3 \times 15 = 45$ Answer any three of the following. Calculate the size of the items - SALARY, JOIN-DATE-R, 8. a) EMPLOYEE. EMPLOYEE 01 02 EMPNO PIC 9 (6) 02 ENAME PIC X (20) 02 DEPT PIC 9 (4) 02 SALARY 03 BASIC PIC 9 (4) V99.COMP-3 03 DA PIC 9 (2) V99 03 HRA PIC 9 (2) V99 02 JOIN-DATE **PIC 99** 03 DAY 03 MONTH **PIC 99** 03 YEAR PIC 99. JOIN-DATE-R REDEFINES JOIN-DATE. 7 02 b) Using evaluate rewrite the following IF statement : IF HRS-WORKED > 20 MOVE 0.3 TO COMM ELSE IF HRS-WORKED > 15 MOVE 0.2 TO COMM ELSE IF HRS-WORKED > 10 MOVE 0.1 TO COMM ELSE MOVE 0 TO COMM **END-IF END-IF** END-IF. 8

8209

[ Turn over

- 9. a) Write a JCL to copy a sequential file to another dataset.
  - b) Write a COBOL program to accept 10 numbers and calculate the maximum, minimum and average of them.

10. Create a DATA division entry for the following file statement :

Col No.	Field
1 – 6	Reg. No.
7	Year
8 - 40	Student name
41 - 42	Age

Read this input file and create an output file like this :

Year	No. of Students
1	XX
2	уу
3	ZZ
4	aa

Write only DATA division and procedure division statements.

	CS/B.TECH (IT)/SEM-8/10 802B/2013
11. a)	Consider the following table definition :
	01 PERSONNEL-TABLE
	02 PERSONNEL-INFO OCCURS 100 TIMES
	03 PERSONNEL-NO PIC 9 (3)
	03 NAME
	04 F-NAME PIC X ( 20 )
	04 L-NAME PIC X (15)
	03 INCOME PIC 9 ( 5 )
	i) What is the size of PERSONNEL-TABLE ( in bytes ) ? 3
	ii) Write PROCEDURE DIVISION statements :
	a) to find how many persons are there whole L-NAME is 'SHARMA'. 3
	<ul> <li>b) to find how many persons are there whose</li> <li>L-NAME is "MITRA' and income is more than</li> <li>Rs. 15000.</li> </ul>
b)	Write a JCL to compile, link edit and run and COBOLprogram.6
12. a)	Discuss when the following clauses are used : 4
	i) AT END
	ii) ROUNDED
	iii) INVALID KEY
	iv) FILE STATUS.
8209	7 [ Turn over

- b) What will happen to the contents of variable A when 123.06 is moved in each case.  $4 \times 2$ 
  - i) A PIC S9(4)V9(3)
  - ii) A PIC 9(3).9(2)
  - iii) A PIC  $+ 9(5) \cdot 9(4)$
  - iv) A PIC -Z9 (4).9(2).
- c) What are JCL procedures ? How does it differ from a main JCL ?3
- 13. Write a JCL utility to

a)	Create VSAM KSDS ( IDCAMS )	4
b)	Load VSAM ESDS ( IDCAMS )	3
c)	Copy one file to another ( IEBCOPY )	4
d)	Compare contents of two files ( IEBCOMPR ).	4